

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION

5 Entitled : THE USE OF CASEIN PEPTIDES FOR TREATING
HYPERTENSION

Inventors : Jérôme TAUZIN, Laurent MICLO,
Catherine LEFRANC, Jean-François BOUDIER,
10 Jean-Luc GAILLARD

Assignee :

15

ABSTRACT OF THE DISCLOSURE

The invention relates to the use in the preparation
of medicines having activity of the antihypertensive
20 type, useful for treating or preventing hypertension, of
one or more peptides having inhibiting activity on ACE
with IC₅₀ values of the order of or less than 60 µM,
selected from the group of peptides having the following
amino acid sequences:

25 Thr-Val-Tyr (SEQ ID No.: 1)
Asn-Met-Ala-Ile-Asn-Pro-Ser-Lys (SEQ ID No.: 2)
Phe-Ala-Leu-Pro-Gln-Tyr (SEQ ID No.: 3)
Phe-Pro-Gln-Tyr-Leu-Gln-Tyr (SEQ ID No.: 4)
Phe-Ala-Leu-Pro-Gln-Tyr-Leu-Lys (SEQ ID No.: 5)
30 Asn-Met-Ala-Ile-Asn-Pro (SEQ ID No.: 6)
Phe-Ala-Leu-Pro (SEQ ID No.: 7).

The invention also relates to a pharmaceutical
composition containing as its active principle an
effective quantity of one or more of the above-cited
35 peptides in combination with a pharmaceutically
acceptable vehicle. The invention also relates to a food
product, in particular suitable for supplementing the

diet of people subject to hypertension or seeking to prevent the appearance thereof, containing an effective quantity of one or more of the above-cited peptides, in combination with food supports, in particular proteins,
5 lipids, or carbohydrates. Such a food product may also include at least one of the peptides having the following amino acid sequences:

Ala-Leu-Asn-Glu-Ile-Asn-Gln-Phe-Tyr-Gln-Lys (SEQ ID
No.: 8)
10 Ala-Leu-Asn-Glu-Ile-Asn-Gln-Phe-Tyr (SEQ ID No.: 9)
Tyr-Leu (SEQ ID No.: 10).